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LABORATORY  
OF THE  
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

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BULLETIN No. 221.

---

ARSENIC AS AN IMPURITY IN DRUGS  
(EFFERVESCENT PHOSPHATE OF SODA)

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ARSENIC AS AN IMPURITY IN DRUGS

(EFFERVESCENT PHOSPHATE OF SODA).

W. J. GERALD, Esq.,  
Deputy Minister of Inland Revenue.

OTTAWA, December 10, 1910.

SIR,—Since the historic case of Arsenical beer (Manchester, Eng., 1900), where it was found that the malt used had become contaminated with dangerous amounts of arsenic through having been dried in the fumes from pyritous coal; while glucose used as an adjunct in beer manufacture contained arsenic from sulphuric acid, used in hydrolysis of starch,—many investigations of drugs have been made, specially directed towards determinations of their content of arsenic.

There is no question of intentional adulteration in this matter, but arsenic is so widely distributed in nature, and especially so in the materials employed in the manufacture of sulphuric acid—which latter is, in its turn, a principal agent in many chemical manufactures that, unless special precautions are taken, more than negligible traces of arsenic may occur in very many drugs.

Bulletin 181 of this Department, contains the results of work upon 448 samples (Sulphates of magnesia and soda, and phosphate of soda) examined in June, 1909.—Below is a synopsis of results:—

	ARSENIC.				Total. Samples.
	None.	Less than one-half milligram per hundred grams.	Less than one milli- gram per hundred grams.	More than one milli- gram per hundred grams.	
Sulphate of magnesia.....	120	26	4	0	150
Sulphate of soda. ....	99	35	10	6	150
Phosphate of soda.....	117	25	6	0	148
	336	86	20	6	448

Bulletin 202 (March, 1910) reports upon 151 samples of Borax ; of which

1 sample contained 1.0 milligram per 100 grammes.

7	"	"	0.5	"	"	"
3	"	"	0.4	"	"	"
1	"	"	0.3	"	"	"
4	"	"	0.2	"	"	"

The accompanying report deals with an examination of 134 samples of effervescing phosphate of soda, purchased throughout Canada. Of this number, 131 samples (98 per cent of the collection) have been found entirely free from arsenic, or containing quite negligible traces. Of three samples which gave distinct reaction for arsenic, one sample contained one part in 100,000, and two samples, contained half of this amount.

The smallest medicinal dose of arsenic fixed by the British Pharmacopœia is  $\frac{1}{16}$  of a grain ; (0.001 gramme). This amount is contained in 100 grammes (about 3 ounces) of the sample 36492. Of this drug  $\frac{1}{4}$  to  $\frac{1}{2}$  ounce is the usual dose.

I beg to recommend publication of this report as Bulletin 221.

I have the honour to be, sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

# BULLETIN No. 221.—EFFERVESCENT PHOSPHATE OF SODA.

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Coer.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an exception of opinion).	Results of Analysis. Arsenic per 100 grams.
				Quantity.	Conte.			
						Manufacturer.	Furnisher.	

## DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

1910.						Vendors				
Oct. 17	Eff. Phosphate of Soda.	42160	Nat. Drug & Chem. Co., Halifax, N.S.	4 oz.	25	H. K. Wampole Co., Perth, Ont.	Manufacturers	Labelled Moyes Granular Eff. Phosphated Soda		
" 18	"	42161	C. E. Huggins, Halifax, N.S.	"	25	Moyes Chemical Co., Toronto.	"			
" 18	"	42162	J. St. Clair Coombes, Halifax, N.S.	"	25	H. K. Wampole, Perth, Ont.	Nat. Drug & Chem. Co., Halifax.			
" 18	"	42163	Irwin & Sons, Halifax, N.S.	"	25	Nat. Drug & Chem. Co., Halifax.	Manufacturers			
" 18	"	42164	M. D. Logan, Halifax, N.S.	"	25	H. K. Wampole, Perth, Ont.	"			
" 19	"	42165	Brown Bros. & Co., Halifax, N.S.	"	30	"	"			
" 19	"	42166	John Rawley, Halifax, N.S.	"	25	Jas. Wyeth & Bro., Philadelphia.	Lyman's Ltd., Montreal			
" 19	"	42167	C. A. Barnstead, Halifax, N.S.	"	50	Nat. Drug & Chem. Co., Halifax.	Manufacturers.			
" 20	"	42168	G. C. McDougall, Kentville, N.S.	"	25	H. K. Wampole, Perth, Ont.	"			
" 20	"	42169	H. C. Wilson, Windsor, N.S.	"	25	"	"			

BULLETIN No. 221—EFFERVESCENT PHOSPHATE OF SODA. *Continued.*

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Arsenic per 100 grams.
				Quantity.	Cents.			

DISTRICT OF NEWCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.

1910.	Sept. 10 Eff. Phosphate of Soda.	45931	E. A. Foster, Charlottetown.	1 lb.	20	Toronto Pharmacy Co., Toronto.		Name.
" 10	"	45932	Geo. E. Hughes, Charlottetown.	"	20	H. K. Wampole, Perth, Ont.		"
" 10	"	45933	McKinnon Drug Co., Charlottetown.	"	15	Wyeth Bros., Philadelphia.		"
" 10	"	45934	Reddin Bros., Charlottetown.	"	15	H. K. Wampole, Perth, Ont.		"
" 10	"	45935	J. G. Jamieson, Charlottetown.	"	20	Parke, Davis & Co., Walkerville.		"
" 13	"	45936	Johnson & Johnson, Charlottetown.	"	20	H. K. Wampole, Perth, Ont.		"
" 23	"	45937	Dr. F. W. Jardine, Kensington.	1 bot.	25	Nat. Drug & Chem. Co., St. John, N.S.		"
" 23	"	45938	McFadyen & McLellan, Summerside.	1 lb.	20	Parke Davis, Walkerville.		"
" 24	"	45939	McNeill Drug Co., Summerside.	1 bot.	25	H. K. Wampole, Perth, Ont.		"
" 27	"	45940	Gillis & Sons, Charlottetown.	"	35	Jno. Wyeth & Bro., Philadelphia.	Contains 50% phosphate sodium.	"

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Sept. 12	15	16	19	19	Oct. 4	5	18	19	19
45359	45360	45361	45362	45363	45364	45365	45366	45367	45368
Em. Phosphate of Soda.	Em. Phosphate of Soda.	"	"	"	"	"	"	"	"
Nat. Drug & Chemical Co., St. John, N.B.	Nat. Drug & Chemical Co., St. John, N.B.	E. Clinton Brown, St. John, N.B.	Burpee E. Brown, St. John, N.B.	A. Chipman Smith & Co., St. John, N.B.	R. T. Mack, Fredericton, N.B.	D. W. C. Stevens, Woodstock, N.B.	Leger Drug Co., Moncton, N.B.	J. D. B. F. MacKenzie, Chatham, N.B.	A. E. Shaw, Newcastle, N.B.
4	4	4	4	4	4	4	4	4	4
35	35	20	20	25	25	15	35	50	25
Nat. Drug & Chemical Co., Ltd., Montreal.	Nat. Drug & Chemical Co., Ltd., Montreal.	H. K. Wampole & Co., Perth, Ont.	Jno. Wyeth & Bro., Philadelphia.	Parke Davis & Co., Walkerville.	H. K. Wampole & Co., Ltd., Perth, Ont.	Nat. Drug & Chemical Co., Ltd., Montreal.	H. K. Wampole & Co., Ltd., Perth, Ont.	Jno. Wyeth & Bro., Philadelphia.	H. K. Wampole & Co., Ltd., Perth, Ont.
None.	None.	None.	None.	None.	None.	None.	None.	None.	None.
Lyman Sear & Co., Canadian distributors. Each teaspoonful contains 3 grains of sodium phosphate.	Lyman Sear & Co., Canadian distributors. Each teaspoonful contains 3 grains of sodium phosphate.	100 grams contain 50 grams of sodium phosphate.	100 grams contain 50 grams of sodium phosphate.	100 grams contain 50 grams of sodium phosphate.	100 grams contain 50 grams of sodium phosphate.	100 grams contain 50 grams of sodium phosphate.	100 grams contain 50 grams of sodium phosphate.	100 grams contain 50 grams of sodium phosphate.	100 grams contain 50 grams of sodium phosphate.



BULLETIN No. 221.—EFFERVESCENT PHOSPHATE OF SODA.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. — Arsenic per 100 grams.
				Quantity.	Cents.			

DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

1910.								
Sept. 12	Eff. Phosphate of Soda.	36491	Joseph Masson, 809 rue St. Valier, Quebec.	1 lb.	40	Chas. E. Frost & Co., Montreal.		None.
" 13	"	36492	A. Martineau, 732 rue St. Valier, Quebec.	"	30	"		1 milligram
" 14	"	36493	W. Brunet et Cie, 139 rue St. Valier, Quebec.	"	18	"		None.
" 14	"	36494	Joseph, Quebec.	"	40	John Wyeth & Bro., Lyman's, Ltd., Montreal.		"
" 14	"	36495	"	"	25	Philadelphia. & Co., Walkerville.		"
" 14	"	36496	"	"	27	Parke Davis & Co., Perth, Ont.		"
" 15	"	36497	Estate Geo. P. Plamondon, 122 1/2 rue St. Joseph, Quebec.	"	50	S. K. Wampole & Co., Perth, Ont.		"
" 15	"	36498	Ludger E. Martel, 91 rue St. Joseph, Quebec.	"	30	Parke Davis & Co., Walkerville.		"
" 15	"	36499	"	"	45	Wyeth Bros., Philadelphia.		"
" 15	"	36500	"	"	35	H. K. Wampole & Co., Perth, Ont.		"

## DISTRICT OF ST. HYACINTHE—J. J. COSTIGAN, ACTING-INSPECTOR.

Sept. 17	Eff. Phosphate Soda.	41033 Dr. Viger, St. Hyacinthe	1 lb.	25	Nat. Drug & Chem. Co., Ltd.	None.
" 17	"	41034 J. H. E. Brodeur, St. Hyacinthe	1 bot.	25	Parke Davis & Co.	"
" 19	"	41035 W. H. Griffiths, Sherbrooke	"	25	Jno. Wyeth & Bro.	"
" 19	"	41036 A. E. Du Berger, "	"	50	Chas. E. Frost & Co.	"
" 20	"	41037 J. C. Sutherland, Richmond, P.Q.	1 lb.	25	Jno. Wyeth & Bro.	"
" 20	"	41038 J. C. Bedard	1 bot.	50	Nat. Drug & Chem. Co., Ltd.	"
Oct. 4	"	41039 Dr. C. P. Verdun, Granby	"	25	Nat. Drug & Chem. Co., Ltd.	"
" 5	"	41040 T. H. Welch, Waterloo	"	25	Parke Davis & Co.	"
" 5	"	41041 A. Vaillancourt	"	35	Chas. E. Frost & Co., Montreal	"
" 5	"	41042 Wright & Co., St. Johna, P.Q.	"	35		"

## DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

Sept. 15	Eff. Phosphate Soda	40748	Quenneville & Guerin, 2,002 St. Lawrence B., Montreal	1 bot.	35	H. K. Wampole & Co., Perth, Ont.	None.
" 15	"	40749	J. E. Bergeron, M.D., 334 Clark St., Montreal	2 "	50	Parke Davis & Co.	"
" 15	"	40750	F. E. Morgan, 181 Fairmount, Montreal	1 "	25	Chas. E. Frost & Co.	"
" 16	"	40751	Jno. J. Weinfield, 458 St. Lawrence B., Montreal	1 lb.	25		"
" 16	"	40752	Henry R. Gray, 198 St. Lawrence B., Montreal	1 bot.	25	Nat. Drug & Chem. Co. of Canada, Ltd.	"
" 22	"	40753	F. E. Morgan, 43 Prince Arthur E., Montreal	1 lb.	25	Nat. Drug & Chem. Co. of Can., Ltd.	"
" 22	"	40754	Romeo Casgrain, 440 St. Catherine E., Montreal	1 bot.	50	Jno. Wyeth & Bro.	"
" 22	"	40755	J. H. Nault, 42 St. Catherine E., Montreal	1 lb.	25	Parke Davis & Co.	"
" 22	"	40756	X. Bourque, 20 St. Catherine W., Montreal	1 bot.	25	Nat. Drug & Chem. Co. of Can., Ltd.	"
" 22	"	40757	Nat. Pat. Medicine Co., 294 St. Lawrence B., Montreal	1 "	25	Wampoles	"

## BULLETIN NO. 221.—EFFERVESCENT PHOSPHATE OF SODA.

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor	Gross		Name and Address of Manufacturer or Furnisher as given by the Vendor	Inspector's Report (Is not an expression of opinion.)	Results of Analysis  Arsenic per 100 grams.
				Quantity	Cent.			
1910.				1 lb.	20	Nat. Drug & Chem. Co., Wyeth Bro. ....	Manufacturers Lymana, Ltd., Montreal.	None.
Sept. 9	Eff. Phosphate Soda.	43121	S. E. Johnston, Arnprior	"	20	H. K. Wampole & Co., Perth Ont.	Manufacturers Lymana, Ltd., Montreal.	"
" 13	"	43122	E. H. Elridge, Vankleek Hill	"	20	H. K. Wampole & Co., Perth Ont.	Manufacturers Lymana, Ltd., Montreal.	"
" 14	"	43123	F. A. Girdwood, Perth, Ont.	"	20	H. K. Wampole & Co., Perth Ont.	Manufacturers Lymana, Ltd., Montreal.	"
" 21	"	43124	James Clark, Renfrew	"	20	H. K. Wampole & Co., Perth Ont.	Manufacturers Lymana, Ltd., Montreal.	"
" 27	"	43125	W. F. Garland, Ottawa	"	20	Wyeth Bro. ....	Unknown	"
" 27	"	43126	R. M. Arbuthnot, Ottawa	"	15	Nat. Drug & Chem. Co., Ltd.	Manufacturers	"
" 28	"	43127	D. Belanger, druggist, Hull, P.Q.	"	10	Nat. Drug & Chem. Co., Ltd.	"	"
" 28	"	43128	The Ottawa Nat. Pharmacy Co., Ltd., Dalhousie st., Ottawa.	"	30	Wyeth Bro. ....	Lymana, Ltd., Montreal.	Less than 1 a milligram.
" 28	"	43129	J. A. Musgrove, Ottawa	"	15	Parke Davis & Co. ....	Manufacturers	None.
" 28	"	43130	Allen & Cochrane, Ottawa	"				"

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

## DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Oct.	4 Eff. Phosphate Soda.			1 lb.	25		Moyes Chem. Co., Toronto.		None.
"	"	46544 F. Hoag, Kingston		"	15		"		"
"	"	46545 C. S. Trousse, Kingston		"	15		Toronto Pharmacy Co.		"
"	"	46546 A. P. Chown, Kingston		3 bots.	75	H. Wampole Perth, Ont.	Moyes Chem. Co.		"
"	"	46547 W. W. Gibson, Kingston		1 lb.	25				"
"	"	46548 L. T. Best, Kingston		"	15	Parke Davis Co., Walkerville.			"
"	"	46549 A. C. Greus, Belleville		"	20	Wampole, Perth			"
"	"	46550 J. S. McKnowns, Belleville		3 bots.	75	Parke Davis Co., Walkerville.			"
"	"	46551 McDermide & Jury, Peterboro		1 lb.	20	Wampole			"
"	"	46552 Warner Drug Co., Peterboro		"	15		Moyes Chem. Co.		"
"	"	46553 W. Madill, Peterboro		"					"

## DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Sept.	13 Eff. Phosphate Soda.			4 oz.	25				None.
"	"	45159 R. W. W. McIntyre, 388 Queen St. W., Toronto		"	25	H. K. Wampole & Co., Ltd., Perth, Ont.	Wampoles		"
"	"	45160 G. W. Ferris, 233 College St., Toronto		"	25	The Moyes Chemical Co., Ltd., Toronto.	Moyes		"
"	"	45161 The F. E. Karm Co., Ltd., Queen St. E., Toronto		"	35	Jac. Wyeth & Bros., Philadelphia	Wyeths		"
"	"	45162 W. J. Nichol, 170 King St. E., Toronto		"	35	Toronto Pharmaceutical Ltd., Toronto.	Toronto Pharmaceutical Co.		"
"	"	45163 C. P. Plater, 1340 Queen St. W., Toronto		"	25	Parke Davis & Co., Walkerville.	Parke Davis & Co.		"
"	"	45164 C. J. Cunningham, 426 King St. E., Toronto		"	25	Nat. Drug & Chemical Co., Hamilton.	Nat. Drug & Chemical Co.		"
"	"	45165 Hawkins Ltd., 643 Barton St., Toronto		"	20	Nat. Drug & Chemical Co., Hamilton.	Nat. Drug & Chemical Co.		"
"	"	45166 Dr. Lang and J. J. Gilchrist, Owen Sound		"	20	H. K. Wampole & Co., Ltd., Perth, Ont.	Wampoles		"
"	"	45167 D. A. Cameron & Co., Owen Sound		"	25	Lymans Ltd., and Toronto.	Lymans Ltd.		"
"	"	45168 J. E. Willis, Whitby		"	20	E. G. West & Co., Toronto.	E. J. West & Co.		"

BULLETIN No. 221—EFFERESCENT PHOSPHATE OF SODA.

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				Quantity.	Per lb.			
1910.								
Sept. 20	Eff. Phosphate of Soda.	44618	D. S. Marrow, Beeton.	1	lb.	Nat. Drug Co., Hamilton		None.
" 26	"	44628	E. A. Robertson, Stratford.	1	"	Moyes Chemical Co., Toronto.		"
" 28	"	44637	Chas. Aberhart, Seaforth.	1	"	Parkes Davis & Co., Walkerville.		"
" 28	"	44639	W. S. R. Holmes, Clinton.	1	"	Parkes Davis & Co., Walkerville.		"
" 29	"	44643	Nat. Drug Co., Toronto.	1	"	Nat. Drug Co., Toronto.		"
" 29	"		H. C. Dunlop, Goderich.	4	"	Moyes Chemical Co., Toronto.		"
" 30	"	44	Fred A. Hind, Wingham.	1	"	Lyman Bros. & Co., Toronto.		"

DISTRICT OF LONDON—T. KIDD, INSPECTOR.

## DISTRICT OF WINNIPEG—JOHN TALBOT, INSPECTOR.

Oct.	3 Eff. Phosphate of Soda.	42443 F. A. Lemon & Co., St. Thomas.	6 oz.	25	.....	Demoyes Chem. Co., Toronto.	None.
"	3	42447 W. W. Taylor, St. Thomas.	"	25	.....	Moyes Chemical Co., Toronto.	"
"	3	42453 R. E. Crane, St. Thomas.	"	30	.....	Canada Pharmaceutical Co.	"
"	3	42459 J. E. Richards & Co., Aylmer.	4 lb.	15	.....	Moyes Chemical Co., Toronto.	Moyes.
"	4	42467 Em. A. Campbell, Aylmer.	6 oz.	20	.....	Shuttsworth Chemical Co., Toronto.	"
"	4	42470 W. A. McCollom, Tilsonburg.	"	25	.....	National Drug Co., London.	"
"	"	42475 W. S. McDonald, Tilsonburg.	"	30	.....	Drug Trading Co., Toronto.	"
"	6	42484 J. S. Pepper, Woodstock.	"	40	.....	Parke Davis, Walker ville.	"

## DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

Sept.	22 Eff. Phosphate of Soda.	43974 National Drug & Chemical Co., Calgary.	1 bot.	20	Parke Davis & Co., Walkerville.	"
"	23	43975 R. Harvey, Calgary.	"	50	"	"
"	23	43976 Bruce Drug Store, Calgary.	"	50	H. K. Wampole & Co., Perth.	"
"	24	43977 Oliver Bros., Calgary.	"	50	Parke Davis & Co.	"
"	24	43978 McDermid Drug Co., Ltd., Calgary.	"	50	"	"
"	25	43979 H. L. Higge, Wetaskiwin.	"	50	"	"
"	29	43980 J. H. Walker, Wetaskiwin.	"	50	C. Frosat & Co., Montreal.	"
"	30	43981 E. M. Carpenter, Edmonton.	"	50	J. Wyeth & Bro., Philadelphia.	"
"	30	43982 Lavell Pharmacy, Edmonton.	"	35	Nat. Drug Co., Ltd.	"
"	30	43983 J. H. Liver, Edmonton.	"	35	Parke Davis & Co., Walkerville.	"

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				Quantity.	Cents.			
						Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

1910.								
Oct.	6 Eff. Phosphate of Soda.	38034	D. D. Curtis & Co., New Westminster.	4 lb.	35	Parker, Davis & Co., Toronto.		None.
"	"	38035	F. A. Muir & Co., New Westminster.	"	35	National Drug & Chemical Co.		"
"	"	38036	Post Office Drug Store, Vancouver.	"	30	H. Wampole & Co., Perth.		"
"	"	38037	Marrett & Reid, Vancouver.	"	75	Jno. Wyeth & Co., Montreal.		"
"	"	38038	Vancouver Drug Co., Vancouver.	"	35	Chas. E. Frost & Co., real.		"
"	"	38039	H. W. Ferguson & Co., Vancouver.	"	40	Lorimer & Co., London, Eng.		"
"	"	38040	Campbell Burns Drug Co., Vancouver.	"	50	Henderson Bros., Vancouver.		"
"	"	38041	Woods Pharmacy, Vancouver.	"	75	W. R. Warner & Co., Philadelphia.		"
"	"	38042	McDuffee Bros., Vancouver.	"	50	Jno. Wyeth & Co., Philadelphia.		"
"	"	38043	David Spencer, Ltd., Vancouver.	"	35	Chas. E. Frost & Co., real.		"
								4 milligram

## DISTRICT OF VICTORIA—O'SULLIVAN, INSPECTOR.

Oct.	20	Eff. Phosphate of Soda.	45000	D. E. Campbell, Victoria	4	"	25	Lyman Sons, Ltd., Montreal.		None.
"	20	"	47501	Jno. Cochran, Victoria.	4	"	25	National Drug & Chemical Co., Ltd., Victoria.		"
"	20	"	47502	W. S. Terry, Victoria.	4	"	50	Jno. Wyeth & Bro., Philadelphia.		"
"	20	"	47503	Hal' ' Co., Victoria.	4	"	35	Parke, Davis & Co., Walkerville.		"
"	20	"	47504	Wm. Jackson & Co., Victoria	4	"	35	Lyman, Ltd., Montreal.		"
"	20	"	47505	F. J. Williams, Victoria	4	"	50	Jno. Wyeth & Bro., Philadelphia.		"
"	20	"	47506	Geo. A. Fraser, Victoria.	4	"	35	H. K. Wampole & Co., Perth.		"
"	24	"	47507	Neil Drug & Chemical Co., Victoria.	4	"	25	National Drug & Chemical Co., Montreal.		"
"	24	"	47508	Dean & Hiscocks, Victoria.	4	"	40	Parke, Davis & Co., Walkerville.		"
"	24	"	47509	B. C. Drug Co., Ltd., Victoria.	4	"	25	"		"